

SUST Research Centre, Shahjalal University of Science and Technology, SUST

List of Approved Projects (General) for funding in the FY2022-23 by University Grants Commission (Code 3631108)

SL	Project ID	Dept	Title of the Project	Name of the Researcher (PI & CI)	Duration
1	PS/2022/1/01	CHE	Arsenic contamination in different regions in Bangladesh: Exploration, sensor development and removal technology	PI: Prof. Dr. Mohammad Abul Hasnat, Department of Chemistry, SUST	1 year
2	PS/2022/1/02	CHE	Project title: Efficient fabrication of PPy-ZnO-ZnS nanocomposites for drug and dye degradation: Towards control of thermal and Morphological properties	PI: Dr. Mohammad Mizanur Rahman Khan, Department of Chemistry & CI: Md. Shahadat Hussain Chowdhury, Assistant Professor, Dept of Chemistry, SUST	1 year
3	PS/2022/1/03	CHE	Fabrication of rGO supported Fe ₃ O ₄ NPs electrocatalyst by using waste iron rust for the degradation of organic pollutants through oxygen reduction reaction.	PI: Dr. S. M. Nizam Uddin, Assistant Professor & CI: Mohammad Salim, Professor, Dept of CHE, SUST	1 year
4	PS/2022/1/04	CHE	Kinetic Optimization for Chemical Conversion of Recycled Aluminium Cans into Alum Grade Water Purifier.	PI: Prof Dr. Mohammad Razaul Karim, Dept of CHE, SUST	1 year
5	PS/2022/1/05	CHE	Design, Synthesis, Characterization, and Study on Optical Properties of a Series of New π -Extended α,β -unsaturated ketones	PI: Professor Dr. Md. Mostafizur Rahman & CI: Professor Ashraful Alam, Department of Chemistry, SUST	1 year
6	PS/2022/1/06	CHE	Non-linear optical (NLO) materials of transition metal oxyfluorides containing chiral organic ligands: Synthesis, crystal structures, characterization, and properties	PI: Dr. Belal Ahmed, Associate Professor & CI: Ramkrishna Saha, Dept. of CHE, SUST	1 year
7	PS/2022/1/07	CHE	Synthesis, Characterization & Anti-cancer activity of N-Heterocyclic Carbene complex with Cu, Ag and Au	PI: Dr. Md. Azharul Arafath, Professor & CI: Dr. Md. Mahbulul Alam, Professor, Dept. of Chemistry, SUST	1 year
8	PS/2022/1/08	CHE	Development of the disposable potentiometric sensor with ISE for the detection of heavy metal toxicants (Hg, Pb ions) in water and biological samples	PI: Shishir Kanti Pramanik, Associate Professor & CI: Dr. Mohammad Abdullah Al Shoeb, Dept of CHE, SUST	1 year
9	PS/2022/1/09	CHE	Development of multi-metal oxide Nano composites and evaluating the feasibility as efficient reusable photo catalyst, generation of redox oxygen species, multidrug resistant antimicrobial agent and DNA binding ability	PI: Professor Dr. Md. Abdus Subhan & CI: Pallab Chandra Saha, Dept of CHE, SUST	1 year

10	PS/2022/1/11	GEE	Vulnerability Prediction using Machine Learning Techniques in South-west Coastal Zones of Bangladesh	PI: Towfiqul Islam Khan, Assistant Professor, Dept of GEE & CI: Professor Dr. Md. Nazrul Islam, Dept of STA, SUST	1 year
11	PS/2022/1/12	GEE	Differentiating Beach and Dune by Sediment Size Analysis of Saint Martin Island, Bangladesh	PI: Md Tariqul Islam, Assistant Professor, Dept of GEE & CI: Syeda Ayshia Akter, Dept of GEE, SUST	1 year
12	PS/2022/1/13	GEE	Climate Migration and Land Use Transformation of Southeastern Highland of Bangladesh: An Empirical Approach to Simulate the Fate of Migrants.	PI: Md. Najmul Kabir, Assistant Professor, Dept of GEE & CI: Md Bahuddin Sikder, Assistant Professor, Dept of GEE, SUST	1 year
13	PS/2022/1/14	MAT	Fuzziness in Huiting Algebras	PI: Dr. Md. Rashed Talukder, Professor, Department of Mathematics, SUST	1 year
14	PS/2022/1/16	MAT	Numerical simulations of the impact of stochastic fluctuations in environmental conditions on the marine aquatic plankton communities	PI: Dr. Md. Alamgir Kabir, Associate Professor, Dept of MAT, SUST	1 year
15	PS/2022/1/17	MAT	Simulation of the Extent of Inland Inundation Due to Far Field Tsunami from an Extended Domain	PI: Professor Dr Mohammed Ashaque Meah & CI: Dr. Muhammad Mizanur Rahman, Dept of MAT, SUST	1 year
16	PS/2022/1/18	MAT	Predictors and consequences of Female age at marriage: A case study of Sylhet district, Bangladesh	PI: Dr Syed Omar Faruk & CI: Dr. Mirza Nazmul Hasan, Dept of MAT, SUST	1 year
17	PS/2022/1/20	MAT	Recognition and enumeration of the unlabeled quasi-full t-ary rooted tree with n elements, where $n > t \geq 2$	PI: Mohammad Salah Uddin, Assistant Professor & CI: Md. Shah Noor, Professor, Dept. of MAT, SUST	1 year
18	PS/2022/1/22	PHY	Exploiting Computational Techniques to Design Thermally Activated Delayed Fluorescence (TADF) Emitters	PI: Dr. Nazia Chawdhury, Professor, Department of Physics, SUST	1 year
19	PS/2022/1/23	PHY	Study of evolution of massive stars at low metallicity and comparison of IMF for young and old clusters	PI: Dr. Syed Badiuzzaman Faruque Professor, Department of Physics, SUST	1 year
20	PS/2022/1/24	PHY	Evaluations of different cloud microphysics parameterization schemes for extremely heavy precipitation event in the northeastern region of Bangladesh and Meghalaya Plateau region.	PI: Dr. Tanvir Ahmed, Associate Professor, Department of Physics, SUST	1 year

21	PS/2022/1/25	PHY	Computation of the Quantum Corrections to Electron-Nucleon Elastic Scattering for Low Energy Precision Test of the Standard Model of Particle Physics	PI: Dr. Jaseer Ahmed, Assistant Professor, Dept of Physics & Dr. Md. Enamul Hoque, Associate Professor, Dept. of Physics, SUST	1 year
22	PS/2022/1/26	PHY	Dielectric Properties of Samarium Cobalt Oxides SmCoO ₃ Across the Insulator-Metal Transition	PI: Professor Dr. Shumsun Naher Begum & CI: Shahadat Hossain, Assistant Professor, Dept. of Physics, SUST	1 year
23	PS/2022/1/29	STA	Assessment of Health Literacy and its Associated Factors among the University Students in Bangladesh	PI: Dr. Md. Jamal Uddin, Professor, & CI: Professor. Dr. Rahmat Ali, Dept of STA, SUST	1 year
24	PS/2022/1/31	STA	Statistical modelling of multimorbidity among adult population in Sylhet: Comparison of frequentist, Bayesian and machine learning methods.	PI: Prof. Dr. Luthful Alahi Kawsar Dept of Statistics, & CI: Mohammad Romel Bhuia, Associate Professor, Dept. of Statistics, SUST	1 year
25	PS/2022/1/33	STA	Food Taking Behaviour and Determinants of Nutritional Status Among Under Five Years Children in Bangladesh.	PI: Dr. Mohammed Taj Uddin, Professor, Dept of Statistics & CI: Dr. Ahmed Kabir, Professor, Dept of Statistics, SUST	1 year
26	PS/2022/1/35	STA	Air Quality Trends and Their Association with Urbanization in Sylhet Division, Bangladesh: A Remote Sensing and GIS-based Statistical Study	PI: Professor Dr. Khalidur Rahman, Dept. of Statistics, SUST	1 year
27	PS/2022/1/36	OCG	Developing a data driven novel approach for coastal food web dynamics modelling through physical-biological coupling	PI: Subrata Sarker, Assistant Professor & CI: Mahnaz Islam Sonia, Assistant Professor, Dept of OCG, SUST	1 year
28	PS/2022/1/38	OCG	Study on the Relationship between Green Mussel (<i>Perna viridis</i>) Habitat Diversity and Environment Variables in the Coastal zones of Bangladesh	PI: Muhammad Mizanur Rahman, Assistant Professor & CI: Abu Bakkar Siddique, Lecturer, Dept of OCG, SUST	1 year
29	PS/2022/1/39	OCG	Microplastic variability in commercially important fisheries from the Northern Bay of Bengal	PI: Md. Shajjadur Rahman, Assistant Professor & CI: Faisal Sobhan, Lecturer, Dept of OCG, SUST	1 year
30	LS/2022/1/01	BMB	In-house green synthesis of superparamagnetic porous iron oxide nanozyme for glucose and cholesterol detection	PI: Dr Muhammad Abul Kalam Azad, Associate Professor & CI: Dr. Mostafa Kamal Masud, Associate Professor, Dept. of BMB, SUST	1 year
31	LS/2022/1/02	BMB	Identification and molecular characterization of a highly stress inducible cytotoxin, Methylglyoxal, detoxifying genes/proteins from tomato	PI: Dr. Ajit Ghosh, Associate, Professor, Dept of BMB, SUST	1 year

32	LS/2022/1/03	BMB	Assessment of the relationship of serum uric acid with obesity and hypertension in young adults in Bangladesh: a cross-sectional study	PI: Khandaker Atkia Fariha, Assistant Professor, Dept of BMB & CI: Nusrat Jahan Koley, Dept of GEE, SUST	1 year
33	LS/2022/1/04	BMB	Molecular Characterization of blaSHV, blaTEM, blaCTX-M, & blaIMP in Extended Spectrum β -lactamase Producing Enterobacteriaceae Isolated from Fecal Samples of Farmed Animals	PI: Moshiul Alam Mishu, Assistant Professor, Dept. of BMB & CI: Md. Arifur Rahman, Assistant Professor Dept. of ARC, SUST	1 year
34	LS/2022/1/05	BMB	Metagenomic analysis of the host bacteria-phage association for the detection of phage-derived endolysin to treat antibiotic resistant pathogen	PI: Dr. Mst Arzuba Akter, Associate Professor & CI: Md. Waseque Mia, Assistant Professor, BMB Dept. SUST	1 year
35	LS/2022/1/06	BMB	Prediction of polymorphic plasticity of HIV-1 Rev protein by bioinformatical approaches	PI: Dr. Md. Zafrul Hasan, Associate Professor, Dept of BMB & CI: Mrs. Nujhat Nuri Sultana, Assistant Professor, Dept of Physics, SUST	1 year
36	LS/2022/1/07	BMB	Assessing antibody responses against SARS CoV-2 vaccine between healthy and the people with co-morbidities: implication for future vaccination strategy	PI: Professor Dr. Shamim Ahmed, Dept, of BMB , SUST	1 year
37	LS/2022/1/08	GEB	Drivers of Ecosystem services and its impact on the assemblages of fish genetic resources and dependent community of Hakaluki Haor: An ecologically sensitive wetland of Northeastern Bangladesh	PI: Professor Dr. Md. Shamsul Haque Prodhan, Dept of GEB, SUST	1 year
38	LS/2022/1/09	GEB	Comprehensive Characterization of Polycystic Ovary Syndrome in Bangladesh	PI: Professor Dr. Mohammad Jakir Hossain, Dept of GEB, SUST	1 year
39	LS/2022/1/10	GEB	A laser-engraved acrylic-based microfluidic system for low-cost, fast antimicrobial susceptibility test with polypharmacy	PI: Dr. Gokul Chandra Biswas, Associate Professor, Dept of Genetic Engineering and Biotechnology, SUST	1 year
40	LS/2022/1/11	GEB	Detection of CEA, CD44 and CK19 in blood of lung and colorectal cancer patients by Multiplex RT-PCR	PI: Dr. Md. Jahangir Alam, Associate Professor, Department of Genetic Engineering and Biotechnology, SUST	1 year
41	LS/2022/1/12	GEB	Molecular detection of virulence genes and pathogenesis of Streptococcus pneumoniae isolates causing pneumonia in children	PI: Md. Hazrat Ali, Assistant Professor, Dept. of GEB & CI: Asif Mahmud, Assistant Professor, Dept of GEB, SUST	1 year

42	LS/2022/1/13	GEB	Characterization of bacteriophage and bacteriophage derived proteins for therapeutic purposes against antibiotic-resistant bacterial pathogens	PI: Dr. Md Shakhinur Islam Mondal, Professor, GEB Dept. of SUST	1 year
43	LS/2022/1/14	GEB	Determination of Gene Regulatory Network in Phytoalexins Biosynthesis in Plants Using the Analysis of RNA-seq Dataset	PI: Dr. Md. Asraful Jahan, Professor, Department of Genetic Engineering and Biotechnology, SUST	1 year
44	LS/2022/1/15	GEB	Computational analysis of high-risk functional missense mutations in human von Hippel-Lindau gene associated with tumor formation	PI: Md. Hammadul Hoque, Assistant Professor & CI: G. M. Nurnabi Azad Jewel, Assistant Professor, Dept. of GEB, SUST	1 year
45	LS/2022/1/17	GEB	Inhibition of key digestive enzymes Linked to Type 2 Diabetes by the Extracts of Raw and Bioled Allium sativum (Garlic) to Control Diabetes Mellitus	PI: Professor Dr. Md. Jahangir Alam, Dept. of Genetic Engineering and Biotechnology & CI: Kamrul Islam, Dept of GEB, SUST	1 year
46	LS/2022/1/18	GEB	Genetic Characterization of Sarail hound to conserve the rare dog breed of Bangladesh	PI: Professor Dr. Md. Zahangir Alam, Dept. of Genetic Engineering and Biotechnology, SUST	1 year
47	LS/2022/1/19	GEB	Assessment of anti-diabetic potential of seaweed extracts using Drosophila model	PI: Zobada Kanak Khan, Associate Professor & CI: Md. Toasin Hossain Aunkor, Assistant Professor, Dept. of GEB, SUST	1 year
48	FES/2022/1/02	FES	Identifying climate and habitat influences on long-term C-accumulation in three wide-spread indigenous tree species in Tarap Hill reserve, Bangladesh	PI: Dr. Md. Qumruzzaman Chowdhury Professor, Dept of FES, SUST	1 year
49	FES/2022/1/03	FES	Analyzing multi-temporal satellite imagery and stakeholder's perceptions to examine how co-management is changing the landscapes of protected areas in the north-eastern part of Bangladesh.	PI: Md Saifuzzaman Bhuiyan, Assistant Professor, Dept. of FES & CI: Anup Datta, Assistant Professor, Dept. of FES, SUST	1 year
50	FES/2022/1/04	FES	Land use change driven climate change in Bangladesh	PI: Dr. Mahmuda Sharmin, Assistant Professor, Dept of FES & CI: Sourav Das, Assistant Professor, Dept of FES, SUST	1 year
51	FES/2022/1/07	FES	Identification, characterization and control of fungi species associated with the diseases of jackfruit (Artocarpus heterophyllus Lam.)	PI: Dr. Mohammed Masum Ul Haque Assistant Professor & CI: Abdur Rakib Bhuiyan, Assistant Professor, Dept of Forestry and Environmental Science, SUST	1 year

52	FES/2022/1/09	FES	Understanding the role of nature based solutions to restore and conserve ecosystem services of the Sundarbans mangrove forest	PI: Dr. Mohammed Abu Sayed Arfin Khan, Professor, Dept of FES, SUST	1 year
53	FES/2022/1/10	FES	Bacterial diversity profiling inherent in rhizosphere and endosphere of pongamia pinata (Koroch) in Ratargul Swamp forest in Sylhet District	PI: Rabeya Sultana, Assistant Professor, Dept of FES & CI: Nusrat Islam, Dept of FES., SUST	1 year
54	FES/2022/1/11	FES	Mirco Plastic pollution from tourism activities: Evidences: from Chittagong Hill Tracts, Bangladesh	PI: Professor Dr. Farzana Raihan, Dept. of FES, SUST	1 year
55	FES/2022/1/12	FES	Patterns and drivers of stem and foliage methane fluxes from an upland tropical forest in Bangladesh	PI: Rahela Khatun, Assistant Professor, Dept of FES & CI: Md Abdul Halim, Assistant Professor, Dept of FES, SUST	1 year
56	AS/2022/1/01	ARC	The Remittance Architechere: How International Remittance is Shaping the built Environment and Culture Landscape of Sylhet Region	PI: Ar. Kawshik Saha , Associate Professor, Dept of Architecture & CI: Ar. Gourpada Dey , Assistant Professor, Dept of ARC, SUST	1 year
57	AS/2022/1/02	ARC	An Assessment of Sidewalk Influence on Microclimate in respect of Sylhet City	PI: Ar. Zannat Ara Dilshad Shangi, Assistant Professor, Dept of ARC & CI: Rupak Das, Assistant Professor, Dept of ARC, SUST	1 year
58	AS/2022/1/03	ARC	Study on Local Microclimate Variation due to Outdoor Domestic Space Configuration after applying FAR of Building Construction Rules in Dhaka City	PI: Iftekhar Rahman, Associate Professor, Dept of ARC & CI: Abhijit Mazumdar, Assistant Professor, Dept of ARC, SUST	1 year
59	AS/2022/1/04	CEP	Synthesis of graphene based conductive polymer ternary nanocomposite for supercapacitor application	PI: Professor Dr. Mohammed Mastabur Rahman, Dept of Chemical Engineering and Polymer Science, SUST	1 year
60	AS/2022/1/06	CEP	Investigation of the effect of halloysite nanotube (HNTs) reinforcement on binary polymer blend	PI: Dr. Md. Md. Fakar Uddin Associate Professor, Dept of CEP, SUST	1 year
61	AS/2022/1/07	CEP	Feasibility of polyhydroxyalkanoate production using mixed culture process.	PI: Dr Mohammad Shaiful Alam Amin, Associate Professor, Dept of CEP & CI: Md Mohibul Alam, Professor, Dept of CEP, SUST	1 year
62	AS/2022/1/08	CEP	Hydrothermal synthesis of Z-scheme CdS/WO3 photocatalyst for enhanced photocatalytic degradation of organics under visible light.	PI: Dr. Md. Tamez Uddin, Professor, Dept of CEP, SUST	1 year
63	AS/2022/1/09	CEP	Evaluation of COD concentration and COD feeding behavior for efficient nitrogen removal using a granular sludge reactor	PI: Rahatun Akter, Assistant Professor, Dept of CEP & CI: Md. Delowar Hossain, Assistant Professor, Dept of CEP, SUST	1 year

64	AS/2022/1/10	CEE	Partial Replacement of sand with Crushed Waste Glass for Geotechnical Applications in Pavement with further Improvement using Chemical Additive	PI: Dr. Shriful Islam, Associate Professor, Dept of CEE & CI: Professor Dr. Md. Jahir Bin Alam, Dept of CEE, SUST	1 year
65	AS/2022/1/11	CEE	Optimal Sensor location in sewer systems to detect coronavirus	PI: Dr. Bijit Kumar Banik, Professor, Dept of CEE, SUST	1 year
66	AS/2022/1/12	CEE	Can permeable plastic concrete be implemented for urban stormwater management?	PI:Dr . Md. Imran Kabir, Professor, Dept of SUST	1 year
67	AS/2022/1/13	CEE	Performance analysis of self-healing bioconcrete/mortar in the local laboratory environment	PI: Dr. Mohammad Shahidur Rahman, Dept. of Civil and Environmental Engineering, SUST	1 year
68	AS/2022/1/14	CEE	Assessment of the sanitation condition of Sylhet City Corporation area in line with sustainable development goal: An application of GIS and SFD Graphic Tools	PI: Dr. Muhammad Azizul Hoque Professor, Department of Civil and Environmental Engineering, SUST	1 year
69	AS/2022/1/15	CEE	Analysis and optimization of the properties of concrete incorporated with ceramic tile waste and stone dust as natural aggregates replacement, SUST	PI: Ayesha Ferdous Mita, Lecturer, Dept of CEE & CI: Mohaiminul Haque, Assistant Professor, SUST	1 year
70	AS/2022/1/17	CEE	Simulation-based Analysis for Traffic Flow Optimization in Sylhet City Arterial Roads	PI: Dr. Md. Bashirul Haque, Associate Professor, Dept of CEE & CI: Md. Aminul Islam, Assistant Professor, Dept of CEE, SUST	1 year
71	AS/2022/1/19	CSE	Translating Bangla Text to Bangla Sign Language for Communication with Hearing Impaired People	PI: Professor Dr. M. Shadidur Rahman, Dept of CSE, SUST	1 year
72	AS/2022/1/21	CSE	Developing a Named-Entity and Root Annotated Bangla Corpus for Natural Language Processing	PI: Dr Mohammad Reza Selim, Professor , Dept of CSE & CI: Md. Eamin Rahman, Assistant Professor , Dept of SUST	1 year
73	AS/2022/1/24	CSE	Development of a Large Corpus of Spontaneous Speech for Improved Speech Recognition in Bangladeshi Bangla	PI: Husne Ara Chowdhury, Associate Professor & CI: Enamul Hasan, Assistant Professor, Dept of CSE, SUST	1 year
74	AS/2022/1/25	CSE	Development a Bangladeshi Facial Expression Database: SUFEDB (SUST Facial Expression Database	PI: Sadia Sultana, Associate Professor, Dept of CSE & CI: Ayesha Tasnim, Assistant Professor, Dept of CSE, SUST	1 year
75	AS/2022/1/27	EEE	Design and Implementation of a Light-duty Electric Vehicle Incorporated with Wireless Charging Station	PI: Dr. Ifte Khairul Amin, Associate Professor & CI: Nafis Imtiaz Rahman, Lecturer, Dept of EEE, SUST	1 year

76	AS/2022/1/28	FET	Effect of protein enrichment on frozen cooked noodles	PI: Dr Kamrunnaher Monalisa, Assistant Professor, Dept of FET & CI: A. S. M Sayem, Assistant Professor, Dept of FET, SUST	1 year
77	AS/2022/1/29	FET	Automated detection by using digital image processing and MATLAB of major fungal Tea (Camellia sinensis L.) leaf disease of Bangladesh	PI: Professor, Dr. Iftekhar Ahmed, Dept of FET, SUST	1 year
78	AS/2022/1/30	FET	Biosynthesis of Zinc Oxide Nanoparticles and their application for postharvest Quality improvement	PI: Dr. Wahiduzzaman, Professor, Dept. of Food Engineering and Tea Technology, SUST	1 year
79	AS/2022/1/31	FET	Pectinase Immobilization on Magnetic Nanoparticles and Application in Pineapple Juice Processing.	PI: Md. Belal Hossain Sikder, Dept of FET & CI: Professor Dr. Abdullah Al Mamun, Dept of GEB, SUST	1 year
80	AS/2022/1/32	FET	The prevalence of metabolic syndrome and associated risk factors among university academic staff and students In Bangladesh	PI: Mitu Samadder, Assistant Professor, Dept, of FET, & CI: Jahid Hasan Shourove, Dept of FET, SUST	1 year
81	AS/2022/1/33	FET	Temporal Dynamics of selected Antibiotic Resistance in Gram-positive and Gram-negative Bacteria Isolated from Street-vended Foods, Salads and Utensils Cleansing Water in Sylhet City	PI: Dr. G.M. Rabiul Islam, Professor, Dept of FET, SUST	1 year
82	AS/2022/1/34	FET	Processing of underutilization ginger, garlic, and onion puree and powders: studies on its drying kinetics, nutritional quality, sorption behaviors and storage stability	PI: Dr. Md. Zohorul Islam, Associate Professor & CI: Mizanur Rahman, Assistant Professor, Dept of FET, SUST	1 year
83	AS/2022/1/35	FET	Optimization of ultrasound-assisted extraction (UAE) of bioactive compounds of hot-air dried green papaya (Carica papaya L.): Kinetic thermodynamics, and mass transfer mechanism	PI: Professor Dr. Animesh Sarker, Dept of FET, SUST	1 year
84	AS/2022/1/36	FET	Encapsulation of omega fatty acids extracted from microalgae: effect of pulse protein isolates on physicochemical attributes, storage stability, and release behavior of the microcapsules	PI: Mahabub Alam, Lecturer, Dept of FET & CI: Mukta Roy, Assistant Professor, Dept of FET, SUST	1 year
85	AS/2022/1/37	IPE	Implementation of Industry 4.0 in the selected industrial sector and its relevance with Supply Chain Components	PI: Professor Dr. Choudhury Abul Anam Rashed, Dept of IPE, SUST	1 year
86	AS/2022/1/41	IPE	Thermal effect on material removal in machining non-metallic material	PI: Professor Dr. Mst. Nasima Begum, Dept of IPE, SUST	1 year

87	AS/2022/1/42	IPE	Efficiency enhancement of solar PV modules employing heat sinks made of locally-available phase change materials (PCM)	PI: Prof. Dr. Muhammad Mahamood Hasan, Dept of IPE & CI: Prof. Dr. A.B.M. Abdul Malek, Dept of IPE, SUST	1 year
88	AS/2022/1/43	IPE	First aid Treatments for Burn and Scald Injury from the Heat Transfer Aspects	PI: Prof. Dr. Abul Mukid Mohammad Mukaddes, Dept of IPE, SUST	1 year
89	AS/2022/1/44	IPE	Prevalence and Analysis of Risk Factors of Musculoskeletal Disorder among Farmers who are involved with Cultivation of Rice in Bangladesh	PI: Professor Dr. Mohammad Iqbal, Dept of IPE, SUST	1 year
90	AS/2022/1/45	IPE	Energy Recovery and Recycling through Integrated Municipal Solid Waste Management System- Opportunities and Challenges in Greater Sylhet	PI: Professor Dr. Md. Ariful Islam, Dept of IPE, & CI: Jahid Hasan, Assistant Professor, Dept of IPE, SUST	1 year
91	AS/2022/1/46	IPE	Developing a single vendor multi-buyers integrated mathematical inventory model with practical implementation in a selected manufacturing company	PI: Syeda Kumrun Nahar, Assistant Professor, Dept of IPE & CI: Md. Mehedi Hasan Kibria, Assistant Professor, Dept of IPE, SUST	1 year
92	AS/2022/1/47	PME	Machine learning approach coupled with feature ranking for the prediction of rock strength in a heterogeneous petroleum reservoir	PI: Labiba Nusrat Jahan, Associate Professor, Dept of PME & CI: Mahamudul Hashan, Assistant Professor, Dept of PME, SUST	1 year
93	AS/2022/1/48	PME	Experimental Investigation of Cement Slurry Contamination With Drilling Fluid And Its Impact on The Mechanical Properties of Cement	PI: Majedul Islam Khan, Assistant Professor, Dept of PME & CI: Mostafa Rafid, Lecturer, Dept of MEE, SUST	1 year
94	AS/2022/1/49	PME	Assessment of the main soluble salts and Heavy metal contamination and propose management plan by analyzing the soil quality around the gas blowout area of Tengratila Gas Field, Chattak, Bangladesh.	PI: Md. Abdullah Al , Numanbakh, Assistant Professor, Dept. of PME, SUST.	1 year
95	AS/2022/1/50	PME	Pollution evaluation and Sources Apportionment of Heavy Metals in the Sediments from the Surma River Watershed, Bangladesh	PI: Dr. M. Farhad Howladar, Professor, Dept. of PME, SUST	1 year
96	AS/2022/1/51	PME	Effect of Bismuth Ferrite Bi-composite Nanoparticles on Rheological and Filtration Properties of Drilling Fluids	PI: Professor Dr. Md. Saiful Alam, Dept of PME & CI: Md. Sifat Tanvir Assistant Professor, Dept of PME, SUST	1 year
97	AS/2022/1/52	PME	Environmental Impact Assessment in the Sylhet Region due to Mineral Extraction	PI: Professor Dr. Md. Shofiqul Islam, Dept of PME & CI: Afruja Begum, Lecturer, Dept of GEE, SUST	1 year

98	AS/2022/1/53	MEE	Development of an autonomous robot (prototype) for the automation in solid waste management system for river using artificial intelligence	PI: Md. Mahmud-Or-Rashid, Assistant Professor, Dept of MEE & CI: Md. Syamul Bashar, Lecturer, Dept of MEE, SUST	1 year
99	AS/2022/1/54	MEE	Question Paper sorting with conveyor belt mechanism	PI: A. K. M Asikuzzaman, Lecturer, Dept of MEE & CI: Saad Been Mosharof, Lecturer, Dept of MEE, SUST	1 year
100	SS/2022/1/01	ANP	The Implementation Research on Maternal Perinatal Death Surveillance and Responses (MPDSR) in Moulvibazar District	PI: Professor Dr. Nur Mohammad Majumder, Dept of ANP, SUST	1 year
101	SS/2022/1/02	ANP	A qualitative exploration into the everyday lives of pregnant women in a slum of Sylhet City: What policy implementers and program planners should know!	PI: Professor AFM Zakaria, Dept of ANP & CI: Mohammed Javed Kaiser Ibne Rahman, Assistant Professor, Dept of ANP, SUST	1 year
102	SS/2022/1/04	ANP	Perceptions and Uses of Herbal Medicines Marketed by Pharmaceutical Manufacturers between Drug Sellers and Customers: Qualitative Study in Sylhet City of Bangladesh	PI: Md. Shahgahan Miah, Assistant Professor, Dept of ANP & CI: Navila Kawser, Assistant Professor, Dept of ANP, SUST	1 year
103	SS/2022/1/05	ANP	Antibiotic Use in Bangladesh's Medical Treatment System: Is the "Antibiotic Gaze" in Formulation?	PI: Md. Mokhlasur Rahman, Professor, Dept of ANP, SUST	1 year
104	SS/2022/1/07	ANP	Access, attitude, and cultural acceptance of digital health, service among the two Ethnic minority group of Sylhet city.	PI: Zafrin Ahmed Liza, Associate Professor, Dept of ANP & CI: Subarna Nandi Majumdar, Lecturer, Dept of ANP, SUST	1 year
105	SS/2022/1/08	ANP	COVID-19 Vaccine Hesitation, Acceptance among University Students in Bangladesh	PI: Korima Begum, Assistant Professor, Dept of ANP & CI: Dr. Mohammad Monjur-Ul-Haider, Assistant Professor, Dept of ANP, SUST	1 year
106	SS/2022/1/10	BNG	'চাকমা ভাষার সমাজভাষিক পরিস্থিতি : ভাষা-সংযোগ ও জ্ঞচিহ্ন'	পিআই: ড. মো. জফির উদ্দিন, অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি, সিলেট।	1 year
107	SS/2022/1/11	BNG	'নজরুলের কবিতার উৎস-সন্ধান ও বৈচিত্র্য অন্বেষণ'	পিআই: ড. মো. রিজাউল ইসলাম অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি, সিলেট।	1 year
108	SS/2022/1/12	BNG	'বাংলাদেশের ছোটগল্পে দেশভাগ : স্মৃতি ও নতুন অভিজ্ঞতার বুয়ান (১৯৪৭-২০০০)'	পিআই: মো. আবু বকর সিদ্দিক, সহকারী অধ্যাপক, বাংলা বিভাগ এবং সিআই: আবু সুফিয়ান, সহকারী অধ্যাপক, পিএসএস বিভাগ, শাবিপ্রবি, সিলেট।	1 year
109	SS/2022/1/13	BNG	হবিগঞ্জের ক্ষুদ্র নৃগোষ্ঠী টিপরা (ত্রিপুরা): লোকজীবন-ভাষা ও সংস্কৃতি	পিআই: ড. মো. আশ্রাফুল কারিম, অধ্যাপক, বাংলা বিভাগ, শাবিপ্রবি।	1 year

110	SS/2022/1/14	ECO	Do Risk-taking Attitudes Relate to Cognitive Ability? Evidence from University Students of Bangladesh.	PI: Md. Gias Uddin Khan, Assistant Prof, Dept of ECO & CI: Dr. Mohammad Abdul Hannan Pradhan, Professor, Dept of ECO, SUST	1 year
111	SS/2022/1/16	ECO	Impact of Women's Empowerment on Children's Diets and Nutritional Status in Urban Areas in Sylhet	PI: Munshi Naser Ibne Afzal, Associate Professor, Dept of ECO, SUST	1 year
112	SS/2022/1/17	ECO	Modelling and Forecasting the Sources of Fiscal volatilities in Emerging Asian Economies: Combining Dynamic Factor model with Machine Learning Approaches'	Masud Alam, Associate Professor, Dept. of ECO & CI: Md. Jakaria, Assistant Professor, Dept. of Petroleum, and Mining Engineering	1 year
113	SS/2022/1/18	ECO	Understanding the drivers propelling diet intake among the reproductive age women in Sylhet district	PI: Md Akther Husain, Assistant Professor, Dept. of ECO & CI: Muntaha Rakib, Professor, Dept of ECO, SUST	1 year
114	SS/2022/1/20	ECO	Impact of In Utero Rainfall Shocks on Child Health in Rural Bangladesh	PI: Professor Dr Mohammad Rafiqul Islam, Dept of ECO, SUST	1 year
115	SS/2022/1/22	ECO	Determinants of the Livelihood Strategy Choices of Rural Households in Tourist Destinations	PI: Monir Uddin Ahmed, Assistant Professor, Dept of ECO & CI: Eshrat Sadiya, Dept of ECO, SUST	1 year
116	SS/2022/1/23	ECO	Women's 'Double Burden' of Paid Work and Unpaid Care: What Role Does Education Play in Women's Employment Decisions?	PI: Tarik Aziz, Assistant Professor, Dept of ECO & CI: Chowdhury Abdullah-Al-Baki, Assistant Professor, Dept of ECO, SUST	1 year
117	SS/2022/1/24	ENG	Difficulties in Academic Writing: An Investigation for Developing Writing Skills of English Department Students at SUST	PI: Professor Dr Hossain Al Mamun, Dept of English, SUST	1 year
118	SS/2022/1/25	ENG	Implementation of Blended Learning in Bangladeshi Universities: A Qualitative Study on Students' and Teachers' Perceptions	PI: Md. Ishrat Ibne Ismail, Associate Professor, Dept of English & CI: Mazid-Ul-Hasan, Assistant Professor, Dept of English, SUST	1 year
119	SS/2022/1/27	PSS	Economic Activities of Rohingya: An Analysis of Enterprises in and around the Rohingya Camps in Bangladesh	PI: Dr Md. Masud Sarker, Associate Professor, Department of Political Studies, SUST	1 year
120	SS/2022/1/29	PSS	Integration and development: An analysis of the strategic dynamics of regional organizations	PI : Dr. Fahmida Aktar, Associate Professor, Dept. of Political Studies & CI: Syeda Ismat Ara Jahan, Assistant Professor, Dept. of Political Studies, SUST	1 year

121	SS/2022/1/30	PSS	Judicial behavior of the Village Court in Bangladesh	PI: Mahbub Alam, Assistant Professor, Dept of PSS & CI: Ashis Kumar Banik, Assistant Professor, Dept of SOC, SUST	1 year
122	SS/2022/1/31	PSS	Political influences on environmental movements in relation to climate change in Bangladesh	PI: Md Amdadul Haque, Assistant Professor, Department of Political Studies & CI: Hajera Aktar, Assistant Professor, Department of Political Studies, SUST	1 year
123	SS/2022/1/32	PSS	The role of BRI in achieving UN's Sustainable Development Goals in Bangladesh	PI: Dr. Md. Shahabul Haque, Professor, Department of Political Studies, SUST	1 year
124	SS/2022/1/33	PSS	Dynamics of Trade Union Practices in the Tea Industry: A Study on Some Selective Tea Gardens in Sylhet, Bangladesh	PI: Mohammad Fakhru Salam, Assistant Professor, Department of Political Studies & CI: ?	1 year
125	SS/2022/1/34	PAD	Enhancing Community Participation at Local Development Projects in Bangladesh: Experience from Union Parishad Governance Project	PI: Dr. Md. Assraf Seddiky, Professor, Dept of Public Administration & CI: Dr. Esmat Ara, Professor, Department of Public Administration, SUST	1 year
126	SS/2022/1/35	PAD	The Influence of Teaching and Learning Process on Developing equality primary Education: A Field Based Study on Rural-Urban Settings	PI: Dr Mohammad Shafiqul Islam, Professor, Dept of Public Administration, SUST	1 year
127	SS/2022/1/36	PAD	Impact of e-mutation services in ensuring public trust in government in Bangladesh: A study on upazila land offices	PI: Professor Anwara Begum, Dept of Public Administration & CI: Muhammad Mustofa Kamal, Assistant Professor, Dept of Public Administration, SUST	1 year
128	SS/2022/1/37	PAD	Challenges of Rural Local Government Institutions (LGI) in achieving the SDGs: Experiences from the Union Parishads (UPs) in Bangladesh	PI: Md Mahmud Hasan, Assistant Professor, Dept of PAD & CI: Jobayda Gulshan Ara, Assistant Professor, Dept of PAD, SUST	1 year
129	SS/2022/1/38	PAD	“Citizen’s Trust on Health Service Delivery System in Bangladesh: A Study on Kishoregonj District”	PI: Sabina Yasmin, Assistant Professor, Dept of PAD & CI: Dr Mohammad Nashir Uddin, Assistant Professor, Dept of PAD, SUST	1 year
130	SS/2022/1/39	PAD	Public Service Delivery in the Union Digital Centre of Haor Regions: The Role of Women Entrepreneurs	PI: Mr. Mohammad Samiul Islam, Associate Professor, Dept of PAD & CI: Professor Dr. Zayeda Sharmin, Dept of PSS, SUST	1 year
131	SS/2022/1/40	PAD	Trust in healthcare service providers: Does non-medical factor matter?	PI: Chowdhury Abdullah Al-Hossienie, Associate Professor, Dept of PAD & CI: Kanij Fatema, Assistant Professor, Dept. of PAD, SUST	1 year

132	SS/2022/1/42	SCW	Social work education during the COVID-19 Pandemic in Bangladesh: Challenges and policy implications	PI: Professor Muhammad Muazzam Hussain, Dept of SOC & CI: Professor Md. Abdul Jalil, Dept of SOC, SUST	1 year
133	SS/2022/1/43	SCW	Parental Experiences of Children with ASD: A Comparative Study between the Rural and Urban Areas in Bangladesh	PI: Krittibas Paul, Assistant Professor, Dept of SCW & CI: Professor Dr. Tulshi Kumar Das, Dept of SCW, SUST	1 year
134	SS/2022/1/44	SCW	Effects of Old Age Allowance on Social Protection of Rural Elderly: A Study	PI: Professor Md. Mizanur Rahman, Department of Social Work, SUST	1 year
135	SS/2022/1/45	SCW	Menstrual Hygiene and Reproductive Health Situation of Married Rural Women in Bangladesh	PI: Professor Mohammad Ali Oakkas, Dept of Social Work, SUST	1 year
136	SS/2022/1/47	SCW	Sexual and Reproductive Health and Rights (SRHR) among Sexual and Social Minorities in Bangladesh	PI: Professor Dr. Md. Ismail Hossain, Dept of Social Work, SUST	1 year
137	SS/2022/1/48	SCW	Couple Conflicts and Institutional Intervention: A Qualitative Study in Sylhet	PI: Md. Fakhru Alam, Associate Professor, Dept of SCW & CI: Professor Dr. Shofiqur Rahman Chowdhury, Dept of SCW, SUST	1 year
138	SS/2022/1/50	SOC	Examination of the Mediating and Moderating Effects of Social Support on the Relationship Between Food Insecurity and Mental Health of People Living in Sylhet, Bangladesh	PI: Iqbal Ahmed Chowdhury, Associate Professor, Dept of SOC & CI: Mohammad Mostufa Kamal, Associate Professor, Dept of Sociology, SUST	1 year
139	SS/2022/1/52	SOC	Cyberstalking Against Women in Bangladesh	PI: Sheikh Nasrin Haque, Assistant Professor, Department of Sociology & CI: Mohammad Shamsul Arefin, Associate Professor, Department of Architecture, SUST	1 year
140	SS/2022/1/53	SOC	Undocumented Bangladeshi Migrants, Transnational Networks and Organised Crime: A Qualitative Study	PI: Professor Dr Mohammad Morad, Dept of Sociology, SUST	1 year
141	SS/2022/1/54	SOC	No Dreams, No Gain: Aspiration Failure, Poverty Traps, and Tea Workers' Children in Bangladesh	PI: Dr. Md. Al-Amin, Dept of Sociology, SUST	1 year
142	SS/2022/1/55	SOC	Do climate change coping strategies differ by type of extreme weather event (EWE)? An exploratory study in Bangladesh	PI: Professor Dr. Shah Md. Atiqul Haq, Dept. of Sociology, SUST	1 year
143	SS/2022/1/57	BUS	Role of Digital/Mobile Financial Services on the Livelihoods of Rural Poor People in Bangladesh: A Study on Sunamganj District.	PI: Professor Dr. Md. Nazrul Islam, Dept of Business Administration, SUST	1 year

144	SS/2022/1/58	BUS	The Mediating Role of Board Size and Philanthropy between Working Capital Management and Firm's Financial Performance: Evidence from DSE listed Pharmaceuticals Firms in Bangladesh	PI: Md. Zillur Rahman, Associate Professor, Dept of Business Administration & CI: Dr. Fazle Elahi Mohammad Faisal, Professor, Dept of Business Administration, SUST	1 year
145	SS/2022/1/59	BUS	Consequence of financial inclusiveness on economy of emerging nations: Does Bangladesh experience similar pathway?	PI: Dr. Mohammad Mizenerur Rahaman, Professor, Department of Business Administration, SUST	1 year
146	SS/2022/1/61	BUS	Impact of fringe benefits on employee productivity: Evidence from the hospitality industry of Bangladesh	PI: Dr. Md. Khairul Islam, Professor, Dept of Business Administration, SUST	1 year
147	SS/2022/1/62	BUS	Social and financial inclusion through agent banking for economic well being: Evidence from the underprivileged group in haor area of Bangladesh	PI: Syed Towfiq Mahmood Hasan, Associate Professor, Department of Business Administration & CI: Sobhana Tanzima Atiq, Associate Professor, Department of Business Administration, SUST	1 year
148	SS/2022/1/63	BUS	Impact of Covid -19 and F-commerce on small scale women entrepreneurs' orientations in Bangladesh: A study on Sylhet region	PI: Sayma Sadia Shawon, Assistant Professor & CI: Sakufa Chowdhury, Assistant Professor, Dept. of Business Administration, SUST	1 year
149	SS/2022/1/66	IICT	An Event Driven and Light Weight Proactive Auto-Scaling Architecture for Cloud Application	PI: Dr. Ahsan Habib, Assistant Professor, Dept of IICT & CI: Fazle Md. Tawsif, Assistant Professor, Dept of IICT, SUST	1 year
150	SS/2022/2/46	SCW	Sexual and Reproductive Health Behavior and the Practices of Family Planning Methods among People Living in Bhasanchar Rohyinga Camp	PI: Dr. Faisal Ahmmed, Professor, Department of Social Work & CI: Dr. Mohammad Shahjahan Chowdhury, Associate Professor, Department of Public Administration, SUST	2 year
151	SS/2022/2/03	ANP	Religious and other Cross-border Identity narratives in Peripheral Localities: A multi-sited socio-cultural analysis on 'localism' and 'otherness' in Bangladesh-India Border	PI: Choudhury Farhana Jhuma, Associate Professor, Dept of ANP & CI: Sanjay Krishno Biswas, Assistant Professor, Dept of ANP, SUST	2 year
152	SS/2022/2/09	BNG	দেশভাগের বাস্তবতায় মুসলিম সমাজ : একটি সমীক্ষা	পিআই: ড. নিলুফা আকতার, অধ্যাপক, বাংলা বিভাগ সিআই: মো. জাহাঙ্গীর আলম, সহকারী অধ্যাপক, বাংলা বিভাগ, সিলেট।	2 year
153	PS/2022/2/32	STA	Elderly multiple disease outcomes and disability of indigenous elder people in Bangladesh using machine learning approach	PI: Dr. Kanis Fatama Ferdushi, Associate Professor & CI: Professor Dr. Sabina Islam, Dept of STA, SUST	2 year

154	PS/2022/2/34	STA	Identifying the factors related to skin diseases in Bangladesh: A cross-sectional study	PI: Professor Dr. Mohammad Ohid Ullah, Dept of STA, SUST	2 year
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